

FACTS ON INTERDEPENDENCE OF FARMERS AND AUTOMOBILE INDUSTRY

AGRICULTURE, AUTO INDUSTRY INTERDEPENDENT

When farm income is up, farmers buy more cars, and industry buys more of the farm products needed in making cars.

FARMERS' ABILITY TO BUY AFFECTS CAR SALES

In Missouri, for example, new passenger car registrations amounted to 39,018 in 1932 when cash receipts from the sale of principal farm products totaled 158½ million dollars. In 1937, new car registrations were up to 89,965 (more than double) when cash farm receipts increased to 271 million dollars. From 1937 to 1938, new car registrations and farm receipts declined.

FARMERS NEED TRUCKS

In 1936, more than 5 million tons of livestock were hauled by trucks. Trucks move more than ½ of the fruit and vegetable tonnage in the Northeast, and almost ¾ in the South. Source: Motor Truck Facts, 1937. Automobile Manufacturers Ass'n.

MORE GASOLINE USED

Gasoline consumption in the United States in 1937 was a third more than in 1932. The gain in 1938 was less than one percent.

AUTO MAKERS NEED FARM GOODS

Farm-grown products used in the manufacture of motor cars include cotton, corn, flax, sugar cane, timber, wool, and products of cattle, hogs, and goats. In 1937, the automobile industry used 632,680 bales of cotton, 36½ million square feet of leather (67 percent of U.S. consumption), and 6 million pounds of mohair (40 percent of U.S. consumption). Source: Automobile Facts and Figures, 1938. Automobile Manufacturers Association.

FARM INCOME AND FACTORY PAYROLLS RISE AND FALL TOGETHER

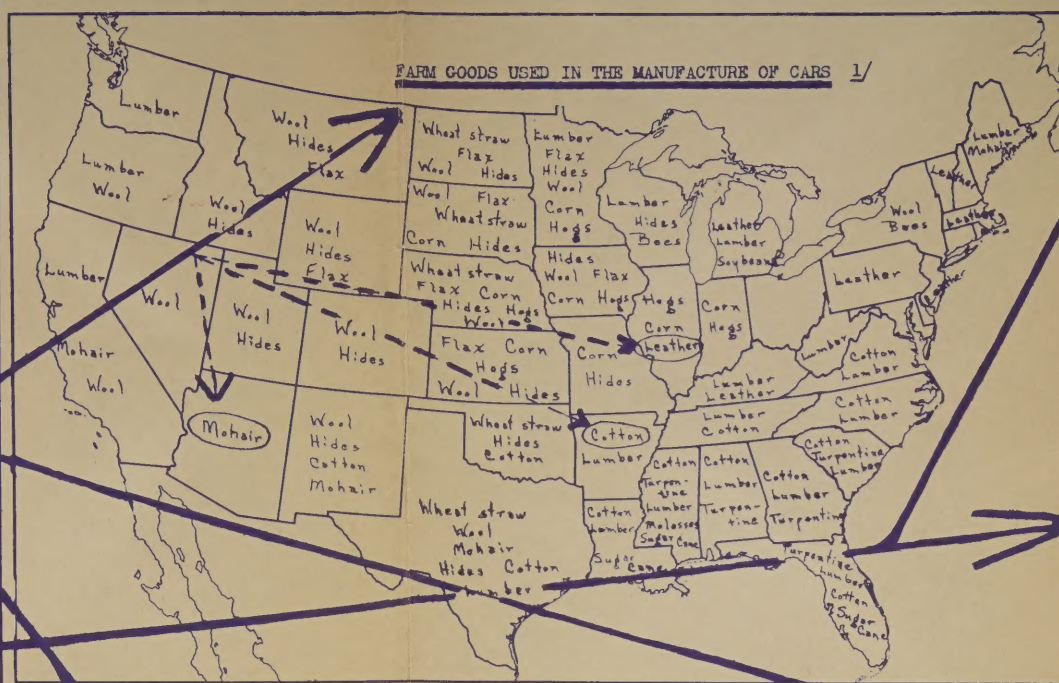
From 1932 to 1937, when farm cash income was rising, auto production and auto factory payrolls rose steadily. Farm income in 1937 almost doubled the 1932 average. Both declined from 1937 to 1938.

NEW PASSENGER CAR REGISTRATIONS IN THE UNITED STATES AND CASH RECEIPTS FROM THE SALE OF PRINCIPAL FARM PRODUCTS, BY STATES, 1932, 1937, and 1938

| States | 1932 | | 1937 | | 1938 | |
|---------|--------------------------|--|-----------------------|--|-----------------------|--|
| | Car Regs- trations 1/ | Farm Cash Receipts 1,000 Dollars | Car Regs- trations | Farm Cash Receipts 1,000 Dollars | Car Regs- trations | Farm Cash Receipts 1,000 Dollars |
| Ala. | 8,375 | 59,066 | 54,936 | 113,857 | 19,427 | 115,798 |
| Ark. | 2,529 | 23,407 | 12,562 | 51,561 | 6,738 | 50,586 |
| Ariz. | 7,094 | 77,964 | 19,793 | 136,538 | 12,844 | 140,655 |
| Calif. | 70,721 | 334,459 | 246,075 | 592,887 | 148,011 | 495,525 |
| Colo. | 10,252 | 64,278 | 32,566 | 145,550 | 17,699 | 116,017 |
| Conn. | 17,578 | 32,199 | 51,268 | 45,151 | 26,283 | 44,126 |
| Del. | 3,182 | 8,995 | 9,748 | 16,410 | 5,429 | 14,786 |
| Fla. | 13,936 | 76,559 | 43,445 | 123,598 | 26,102 | 101,734 |
| Ga. | 14,153 | 58,311 | 48,823 | 140,476 | 25,319 | 131,212 |
| Iaho | 2,109 | 41,216 | 14,139 | 104,090 | 6,883 | 77,817 |
| Ill. | 62,164 | 228,661 | 250,205 | 472,579 | 133,914 | 441,341 |
| Ind. | 29,202 | 135,980 | 123,972 | 285,927 | 56,339 | 280,894 |
| Iowa | 19,525 | 275,388 | 68,196 | 513,561 | 47,489 | 547,611 |
| Kans. | 14,789 | 167,060 | 56,315 | 337,592 | 27,301 | 246,745 |
| Ky. | 14,092 | 73,706 | 41,391 | 158,878 | 22,906 | 157,446 |
| La. | 10,627 | 56,385 | 34,084 | 117,150 | 24,842 | 117,299 |
| Maine | 7,908 | 30,469 | 20,048 | 52,568 | 11,038 | 44,099 |
| Ma. | 18,097 | 40,002 | 46,371 | 72,417 | 27,331 | 61,432 |
| Mass. | 50,804 | 39,055 | 115,608 | 52,041 | 63,682 | 51,659 |
| Mich. | 60,186 | 108,902 | 241,156 | 228,521 | 87,184 | 197,712 |
| Minn. | 24,626 | 163,192 | 82,874 | 347,871 | 52,667 | 319,667 |
| Miss. | 5,892 | 70,592 | 22,646 | 163,656 | 13,670 | 163,628 |
| Mo. | 39,018 | 158,702 | 89,965 | 271,223 | 55,543 | 248,393 |
| Mont. | 4,099 | 41,528 | 18,062 | 86,242 | 10,154 | 83,427 |
| Nebr. | 11,260 | 162,533 | 33,640 | 251,910 | 22,319 | 203,890 |
| Nev. | 1,326 | 5,851 | 4,767 | 12,687 | 2,576 | 11,581 |
| N. H. | 5,467 | 13,120 | 12,961 | 18,047 | 7,062 | 18,621 |
| N. J. | 48,339 | 53,978 | 122,103 | 79,071 | 70,764 | 80,655 |
| N. M. | 2,334 | 22,780 | 10,781 | 51,382 | 6,393 | 41,960 |
| N. Y. | 148,322 | 175,720 | 329,961 | 286,626 | 194,049 | 263,417 |
| N. Car. | 15,280 | 85,846 | 55,341 | 234,641 | 33,922 | 213,730 |
| N. Dak. | 3,959 | 55,280 | 12,060 | 113,302 | 8,620 | 99,232 |
| Ohio | 64,961 | 155,467 | 250,192 | 320,903 | 105,439 | 290,183 |
| Okla. | 17,087 | 94,346 | 51,580 | 176,583 | 34,343 | 169,438 |
| Ore. | 6,491 | 46,360 | 35,915 | 102,494 | 18,769 | 80,172 |
| Penn. | 95,340 | 151,590 | 293,909 | 259,863 | 140,332 | 234,694 |
| R. I. | 7,958 | 5,368 | 20,499 | 7,817 | 10,483 | 7,329 |
| S. Car. | 6,811 | 46,219 | 26,959 | 100,366 | 15,748 | 99,154 |
| S. Dak. | 4,031 | 56,654 | 12,728 | 98,852 | 7,911 | 107,036 |
| Tenn. | 11,696 | 83,550 | 42,320 | 130,595 | 24,973 | 127,200 |
| Texas | 44,594 | 280,713 | 150,093 | 634,819 | 103,817 | 497,765 |
| Utah | 2,729 | 25,165 | 14,358 | 45,115 | 7,045 | 38,368 |
| Vt. | 4,062 | 24,624 | 8,799 | 32,941 | 4,687 | 34,361 |
| Va. | 20,813 | 61,101 | 50,768 | 108,143 | 31,204 | 103,644 |
| Wash. | 11,471 | 79,166 | 49,699 | 153,047 | 23,935 | 116,367 |
| W. Va. | 10,166 | 23,603 | 35,879 | 37,587 | 16,483 | 37,149 |
| Wisc. | 25,410 | 158,016 | 97,841 | 324,620 | 48,872 | 293,296 |
| Wyo. | 2,367 | 22,236 | 8,968 | 53,096 | 5,136 | 40,254 |

1/ Passenger car registrations from R. L. Polk and Company, Detroit, Michigan; Farm Cash Receipts from the Bureau of Agricultural Economics; 1937 and 1938 receipts estimates include government payments.

Prepared in the Div. of Information, AAA, March 1939.



1/ Source: Automobile Facts and Figures, 1938. Automobile Manufacturers Association.

ESTIMATED REGISTRATION OF NEW TRUCKS ON FARMS BY STATES FOR 1932, 1937 AND 1938

| States | 1932 | | 1937 | | 1938 | |
|---------|--------------|--------------------|--------------|--------------------|--------------|--------------------|
| | Trucks 1/ | Registration 2/ | Trucks 1/ | Registration 2/ | Trucks 1/ | Registration 2/ |
| Ala. | 33.9 | 1,982 | 872 | 12,874 | 4,364 | 7,041 |
| Ark. | 28.6 | 566 | 162 | 3,659 | 1,046 | 2,061 |
| Ariz. | 27.6 | 1,467 | 406 | 10,856 | 2,991 | 5,909 |
| Calif. | 19.1 | 10,732 | 2,050 | 36,901 | 7,048 | 23,848 |
| Colo. | 59.3 | 2,001 | 1,187 | 8,411 | 4,988 | 4,771 |
| Conn. | 12.6 | 3,066 | 388 | 7,787 | 979 | 4,422 |
| Del. | 29.2 | 597 | 174 | 1,862 | 580 | 1,161 |
| Fla. | 21.2 | 2,894 | 614 | 10,722 | 2,273 | 6,540 |
| Ga. | 32.8 | 2,344 | 834 | 12,998 | 4,283 | 6,818 |
| Iaho | 45.9 | 673 | 309 | 4,454 | 2,044 | 2,613 |
| Ill. | 19.8 | 7,865 | 1,567 | 50,451 | 6,029 | 18,068 |
| Ind. | 23.9 | 4,849 | 1,159 | 16,269 | 4,366 | 9,899 |
| Iowa | 46.8 | 4,154 | 1,944 | 12,449 | 5,828 | 8,940 |
| Kans. | 45.6 | 3,119 | 1,422 | 12,409 | 5,659 | 7,960 |
| Ky. | 21.5 | 2,819 | 806 | 11,597 | 2,493 | 7,244 |
| La. | 20.0 | 1,844 | 369 | 10,111 | 2,022 | 6,155 |
| Maine | 29.0 | 2,240 | 650 | 5,658 | 1,641 | 3,315 |
| Ma. | 29.0 | 2,935 | 866 | 7,763 | 2,251 | 4,741 |
| Mass. | 9.7 | 7,290 | 707 | 16,235 | 1,675 | 9,459 |
| Mich. | 20.9 | 6,402 | 1,338 | 24,849 | 5,131 | 11,288 |
| Minn. | 36.6 | 4,858 | 1,778 | 13,555 | 4,961 | 8,674 |
| Miss. | 50.5 | 1,476 | 745 | 11,176 | 5,644 | 5,828 |
| Mo. | 23.7 | 7,646 | 1,612 | 19,170 | 4,643 | 11,718 |
| Mont. | 58.2 | 1,180 | 669 | 5,044 | 2,936 | 4,112 |
| Nebr. | 61.6 | 2,108 | 1,299 | 8,202 | 3,820 | 4,664 |
| Nev. | 18.7 | 320 | 60 | 1,167 | 218 | 781 |
| N. H. | 32.4 | 1,152 | 378 | 5,022 | 979 | 1,759 |
| N. J. | 11.0 | 7,505 | 826 | 18,446 | 2,029 | 11,791 |
| N. M. | 38.9 | 817 | 318 | 5,089 | 1,980 | 2,911 |
| N. Y. | 17.2 | 19,945 | 3,430 | 41,922 | 7,211 | 26,458 |
| N. Car. | 35.0 | 3,620 | 1,267 | 15,691 | 5,492 | 9,309 |
| N. Dak. | 65.4 | 786 | 514 | 3,193 | 2,088 | 2,453 |
| Ohio | 18.9 | 8,753 | 1,654 | 28,440 | 5,375 | 15,261 |
| Okla. | 39.6 | 2,594 | 1,027 | 14,702 | 5,822 | 8,966 |
| Ore. | 44.5 | 1,451 | 646 | 7,859 | 3,497 | 4,061 |
| Penn. | 21.1 | 15,618 | 3,295 | 39,150 | 8,261 | 21,044 |
| R. I. | 8.5 | 1,152 | 98 | 2,749 | 234 | 1,531 |
| S. Car. | 27.2 | 1,215 | 330 | 7,257 | 1,974 | 4,306 |
| S. Dak. | 65.0 | 704 | 458 | 2,669 | 1,728 | 2,008 |
| Tenn. | 27.6 | 2,031 | 561 | 10,799 | 2,961 | 6,476 |
| Texas | 28.7 | 8,819 | 2,531 | 40,908 | 11,740 | 25,882 |
| Utah | 24.6 | 758 | 166 | 3,298 | 811 | 1,984 |
| Vt. | 58.8 | 972 | 572 | 2,444 | 1,437 | 1,228 |
| Va. | 33.1 | 4,105 | 1,369 | 12,928 | 4,279 | 7,906 |
| Wash. | 30.2 | 2,471 | 748 | 10,222 | 3,087 | 5,419 |
| W. Va. | 18.4 | 1,844 | 339 | 9,269 | 1,705 | 4,694 |
| Wisc. | 49.7 | 4,522 | 2,247 | 16,412 | 8,156 | 8,516 |
| Wyo. | 46.6 | 813 | 286 | 2,627 | 1,224 | 1,708 |

U.S. 26.6 180,413 47,990 618,249 164,454 365,349 97,183

1/ From the U. S. Census of Agriculture, 1930 (latest available).
2/ From a compilation of R. L. Polk and Co.
3/ Totals include District of Columbia registrations.

AUTOMOBILE PRODUCTION AND FACTORY PAYROLLS AND AGRICULTURAL PRODUCTION AND CASH FARM INCOME

| Year | Automobile Prod. 1/ | Av. Weekly Fac- tory Payrolls 2/ | Agric. Prod. 3/ | Cash Farm Income 4/ |
|------|------------------------|-------------------------------------|-----------------|------------------------|
| | | | (1924-29=100) | (Millions) |
| 1932 | 1,370,678 | \$4,899,990 | 100 | 4,328 |
| 1933 | 1,920,057 | 4,834,797 | 97 | 5,117 |
| 1934 | 2,753,111 | 8,601,270 | 94 | 6,348 |
| 1935 | 3,946,934 | 11,297,316 | 92 | 7,090 |
| 1936 | 4,454,115 | 12,975,510 | 95 | 7,944 |
| 1937 | 4,808,974 | 15,663,144 | 109 | 8,574 |
| 1938 | 2,489,635 | 8,747,429 | 104 | 7,632 |

1/ Includes trucks and passenger cars. Bur. of Census.
2/ Wages paid to workers in body and parts factories.
Bureau of Labor Statistics, Dept. of Labor.
3/ B.A.E. estimates.
4/ B.A.E. estimates, incl. Govt. payments.

INDICATIONS FOR SPECIFIED YEARS 1/

| Year | Cash Income from Farm 1924-29=100 | Automobile Production (1923-25=100) | Prices Re- ceived by Farmers 1909-14=100 | Retail Sales New Passenger Automobiles 1929-31=100 |
|------|---|---|---|--|
| 1929 | 103.5 | 135 | 146 | 144.1 |
| 1932 | 42.5 | 35 | 65 | 35.5 |
| 1933 | 49.0 | 48 | 70 | 43.3 |
| 1936 | 74.5 | 112 | 114 | 105.1 |
| 1937 | 80.5 | 121 | 121 | 108.3 |
| 1938 | 69.8 | 63 | 95 | 66.5 |

1/ Survey of Current Business, U.S. Dept. of Com.
2/ Not including Government payments.

GASOLINE CONSUMPTION IN THE UNITED STATES, BY STATES, 1932, 1936, 1937, AND 1938

| States | 1932 | 1936 | 1937 | 1938 |
|--------|---------------|---------------|---------------|---------------|
| Ala. | 136,435,000 | 204,623,000 | 225,865,000 | 230,277,000 |
| Ark. | 66,047,000 | 95,648,000 | 103,869,000 | 102,210,000 |
| Ariz. | 114,031,000 | 154,222,000 | 164,146,000 | 170,083,000 |
| Calif. | 1,382,570,000 | 1,757,845,000 | 1,752,302,000 | 1,752,302,000 |
| Colo. | 158,898,000 | 204,746,000 | 221,028,000 | 226,967,000 |
| Conn. | 245,184,000 | 299,405,000 | 326,907,000 | 319,464,000 |
| Del. | 38,259,000 | 50,581,000 | 54,678,000 | 55,562,000 |
| Fla. | 208,913,000 | 312,980,000 | 328,915,000 | 338,603,000 |
| Ga. | 199,031,000 | 305,198,000 | 331,787,000 | 338,787,000 |
| Iaho | 52,392,000 | 87,847,000 | 94,607,000 | 94,701,000 |
| Ill. | 950,822,000 | 1,191,916,000 | 1,293,364,000 | 1,334,841,000 |
| Ind. | 440,992,000 | 578,777,000 | 633,810,000 | 631,916,000 |
| Iowa | 356,445,000 | 460,208,000 | 495,896,000 | 528,093,000 |
| Kans. | 356,445,000 | 460,208,000 | 495,896,000 | 528,093,000 |
| Ky. | 164,058,000 | 228,333,000 | 251,844,000 | 256,590,000 |
| La. | 166,014,000 | 216,401,000 | 238,535,000 | 247,770,000 |
| Maine | 110,732,000 | 134,521,000 | 145,443,000 | 144,866,000 |
| Ma. | 193,950,000 | 245,232,000 | 270,188,000 | 271,956,000 |
| Mass. | 68,773,000 | 657,753,000 | 696,484,000 | 690,160,000 |
| Mich. | 765,063,000 | 995,781,000 | 1,110,604,000 | 1,053,960,000 |
| Minn. | 401,081,000 | 480,874,000 | 509,898,000 | 529,725,000 |
| Miss. | 107,623,000 | 170,885,000 | 189,801,000 | 193,862,000 |
| Mo. | 458,672,000 | 567,601,000 | 590,496,000 | 603,659,000 |
| Mont. | 67,869,000 | 111,522,000 | 115,920,000 | 118,604,000 |
| Nebr. | 198,914,000 | 230,362,000 | 229,110,000 | 230,554,00 |

